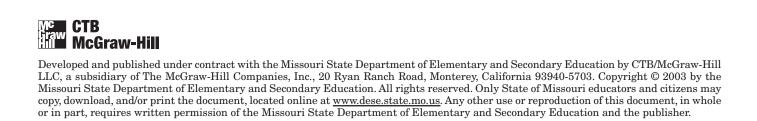
Missouri Assessment Program Spring 2003

Mathematics

Released Items

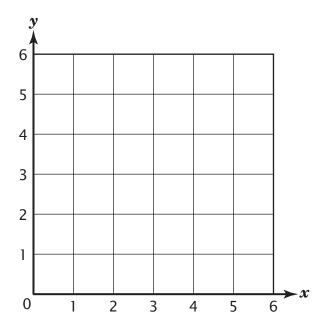
Grade 10



A group of friends decided to build a ramp to practice in-line skating. An experienced ramp designer suggested they start planning the shape of the ramp by using the equation $y = \frac{1}{4}x^2$. Use the equation to complete the table below.

x	у
0	
1	
2	
3	
4	

Using the values from the table, sketch the shape of the ramp on the grid below.



Go On >

Missouri Assessment Program Spring 2003

Mathematics Released Items Scoring Guide Grade 10

Session: 1 1 Item No.: Page No.: Content Standard(s): 3

4 Patterns and Relationships

Process Standard(s): 1.8

Exemplary Response:

x	у
0	0.0
1	0.25
2	1.0
3	2.25
4	4.0

OR

x	у
0	0
1	1/4
2	1
3	2 1/4
4	4

 Session:
 1

 Item No.:
 1

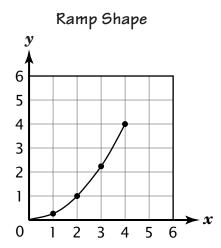
 Page No.:
 3

Content Standard(s): 4 Patterns and Relationships

Process Standard(s): 1.8

AND

•



Score Points:

2 points Exemplary response

1 point Correct process; error in computation or diagram

OR

Correct graph based on student's chart

0 points Other

Session: 2 Item No.: 2 Page No.: 4

Content Standard(s): 1 Number Sense

Process Standard(s): 1.10

Exemplary Response:

• c = 500 + 85n

OR

Other valid equation

AND

• (\$)1520

Score Points:

2 points Exemplary response

1 point One correct component

0 points Other